

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 2 of 9

Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

---

1-60. (Canceled)

61. (New) A drug infusion pump for use with a container containing a particular drug, the pump comprising:

a drive mechanism which during operation causes the particular drug to be delivered to a patient from the container;

a programmable controller that controls the drive mechanism;

an electronically loadable memory inside the pump, wherein the electronically loadable memory stores a drug library comprising a plurality of drug entries, and wherein each drug entry is associated with a set of drug delivery parameters for configuring the drug infusion pump; and

a user interface enabling a user to program the programmable controller, wherein the user interface comprises one or more control keys that enable the user to select a drug entry from the drug library, which enables the pump to configure the programmable controller with a set of drug delivery parameters associated with the selected drug entry.

62. (New) The drug infusion pump of claim 61, wherein the container is a syringe and the drive mechanism operates the syringe.

63. (New) The drug infusion pump of claim 61, wherein the electronically loadable memory is a non-volatile memory.

64. (New) The drug infusion pump of claim 61, wherein the electronically loadable memory is an EEPROM.

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 3 of 9

Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

64. (New) The drug infusion pump of claim 61, wherein the electronically loadable memory is an EEPROM.

65. (New) The drug infusion pump of claim 61, wherein the pump comprises a screen, and the user interface displays a menu on the screen.

66. (New) The drug infusion pump of claim 61, wherein the user interface comprises a control panel through which the user programs the programmable controller and a display screen for displaying drug entries from the drug library.

C 67. (New) The drug infusion pump of claim 61, wherein each of the associated sets of drug delivery parameters includes information selected from a group of parameters including drug concentration, drug delivery rate, drug dose, and bolus size.

68. (New) The drug infusion pump of claim 67, wherein the group of parameters includes minimum, default, and maximum drug delivery rate.

69. (New) The drug infusion pump of claim 67, wherein the group of parameters includes minimum, default, and maximum bolus size.

70. (New) The drug infusion pump of claim 61, wherein the drug library contains a list of available mode options that specify units available for expressing drug delivery information, and wherein the drug infusion pump displays to the user the list of available mode options from which to make a selection.

71. (New) The drug infusion pump of claim 70, wherein the list of available mode options is selected from the group consisting of milliliters/hour, units/hour, micrograms/minute, and micrograms/kilogram/minute.

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 4 of 9

Received from <16175428906> at 11/3/03 2:05 PM [Eastern Standard Time]  
Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

72. (New) The drug infusion pump of claim 61, wherein the drug library contains a list of names of syringe manufacturers of syringes used in the drug infusion pump, and wherein the drug infusion pump displays to the user the list of names of syringe manufacturers from which to make a selection.

73. (New) The drug infusion pump of claim 61, wherein the drug library contains a list of syringe sizes used in the drug infusion pump, and wherein said drug infusion pump displays to the user the list of syringe sizes from which to make a selection.

C 74. (New) The drug infusion pump of claim 61, wherein the drug library contains a set of switchable features, each having a user selectable on and off condition, and wherein the drug infusion pump displays to the user only the features from among the set of switchable features that are in the on condition.

75. (New) A drug infusion pump for use with a container containing a given drug, the container including a machine-readable label, the label specifying an identifier of the given drug and optionally other information about the given drug, the pump comprising:

- a drive mechanism which during operation causes the given drug to be delivered to a patient from the container;

- a processor that controls the drive mechanism;

- an electronically loadable memory inside the pump, wherein the electronically loadable memory stores a drug library comprising a plurality of drug entries, and wherein each drug entry is associated with a set of drug delivery parameters for configuring the drug infusion pump;

- a label reader which during use reads the contents of the machine-readable label on the container;

- means responsive to the label reader for identifying an entry in the drug library that corresponds to the given drug;

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 5 of 9

Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

means for configuring the processor by using the set of drug delivery parameters associated with the identified entry from the drug library; and

means for causing the processor to run the drive mechanism using the set of drug delivery parameters associated with the identified entry from the drug library.

76. (New) The drug infusion pump of claim 75, wherein the container is a syringe and the drive mechanism operates the syringe.

77. (New) The drug infusion pump of claim 75, wherein the machine-readable label is a touch memory.

78. (New) The drug infusion pump of claim 75, wherein the configuring means also uses information from the label to configure the processor.

79. (New) The drug infusion pump of claim 75, wherein the machine-readable label includes an expiration date for the given drug and wherein the pump further comprises:

an internal clock indicating a current date;

means for comparing the expiration date as read by the label reader to the current date as indicated by the internal clock; and

means for issuing a warning if the current date is later than the expiration date.

80. (New) The drug infusion pump of claim 79, further comprising means for preventing the processor from running the drive mechanism if the current date is later than the expiration date.

81. (New) The drug infusion pump of claim 75, wherein the electronically loadable memory is a non-volatile memory.

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 6 of 9

Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

82. (New) The drug infusion pump of claim 75, wherein the electronically loadable memory is an EEPROM.

83. (New) The drug infusion pump of claim 75, further comprising a user interface and a screen, wherein the processor displays information on the screen.

84. (New) The drug infusion pump of claim 75, further comprising a user interface comprising a control panel through which a user responds to prompts from the processor, and a display screen for displaying information relating to drug entries from the drug library.

85. (New) The drug infusion pump of claim 75, wherein the pump performs a verification function by comparing information on the machine-readable label with information in the drug library.

86. (New) A drug infusion pump for use with a container containing a given drug, the container including a machine-readable label, the label specifying an identifier of the given drug and optionally other information about the given drug, the pump comprising:

- a drive mechanism which during operation causes the given drug to be delivered to a patient from the container;

- a processor that controls the drive mechanism;

- an electronically loadable memory inside the pump, wherein the electronically loadable memory stores a drug library comprising a plurality of drug entries, and wherein each drug entry is associated with a set of drug delivery parameters for configuring the drug infusion pump; and

- a label reader which during use reads the contents of the machine-readable label on the container;

- wherein the processor is programmed to

- compare information from the machine-readable label with information in the drug library to identify an entry in the drug library that corresponds to the given drug;

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 7 of 9

Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

configure the drug infusion pump by using the set of drug delivery parameters associated with the identified entry from the drug library; and  
run the drive mechanism using the set of drug delivery parameters associated with the identified entry from the drug library.

87. (New) The drug infusion pump of claim 86, wherein the machine-readable label is a touch memory.

88. (New) The drug infusion pump of claim 86, wherein the processor configures the drug infusion pump further using information from the machine-readable label.

89. (New) The drug infusion pump of claim 86, wherein the machine-readable label includes an expiration date for the given drug and wherein the pump further comprises:  
an internal clock indicating a current date;  
means for comparing the expiration date as read by the label reader to the current date as indicated by the internal clock; and  
means for issuing a warning if the current date is later than the expiration date.

90. (New) The drug infusion pump of claim 89, further comprising means for preventing the processor from running the drive mechanism if the current date is later than the expiration date.

91. (New) The drug infusion pump of claim 86, wherein the electronically loadable memory is a non-volatile memory.

92. (New) The drug infusion pump of claim 86, wherein the electronically loadable memory is an EEPROM.

Applicant : Alan D. Ford et al.  
Serial No. : 09/877,404  
Filed : June 8, 2001  
Page : 8 of 9

Attorney's Docket No.: 00786-157003 / MGH-0657.3  
Sims Div.

93. (New) The drug infusion pump of claim 86, further comprising a user interface and a screen, wherein the processor displays information on the screen.

94. (New) The drug infusion pump of claim 86, further comprising a user interface comprising a control panel through which a user responds to prompts from the processor, and a display screen for displaying information relating to drug entries from the drug library.

C<sup>1</sup>  
95. (New) The drug infusion pump of claim 86, wherein the pump performs a verification function by comparing information on the machine-readable label with information in the drug library.

---